

1401

'ERT' SERVICE CHART

TWELVE valves plus two diodes combined radio with high quality stereo pre-amplifier and amplifier, supplied in chassis form only.

Mains. 200-250V AC only.

Wavebands. MW 195-550m, LW 1000-2000m, VHF 87-108mc/s.

Valves. ECC85(3), ECH81, EF89, DM70, EB91, ECL82(4), EZ81.

Diodes. OA81(2).

Pilot lamps. 8V 3A MES (2).

IFs. AM 430kc/s, FM 10.7mc/s.

Output. 8W push-pull per channel. 3ohms and 15ohms.

Aerial. AM ferrite rod and external sockets. FM 300ohms balanced and 75ohms unbalanced.

Facilities. Sockets for stereo tape and pickup. Connections for stereo multiplex decoder.

Maker. Armstrong Audio, Ltd.

Service Department. Warlters Road, Holloway, London N7. Tel.: North 6351.

ALIGNMENT

Equipment required. AM generator covering 150kc/s to 1.5mc/s, FM generator covering 10.7mc/s and 87-108mc/s, output meter, 20,000ohms/volt meter, trimming tools.

Setting up. Volume control maximum, treble and bass minimum, function switch mono, wavechange MW, tuning gang fully meshed, balance control mid-point.

Connect output meter to channel A speaker and shorting link across channel B speaker. Unscrew all tuning cores until almost out.

AM IF. Connect generator to front section of gang C24 and short rear section C33 to chassis.

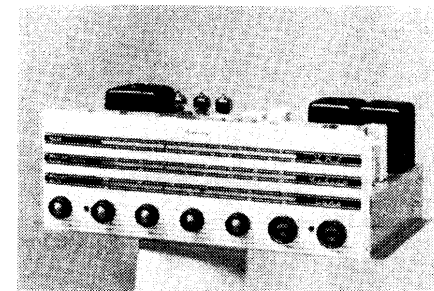
Feed in 430kc/s modulated signal and adjust L22, L21, L14 and L13 in that order for maximum output. Reduce generator output so that reading on output meter does not exceed 50mW.

AM RF and oscillator. Connect generator to AM aerial and earth sockets via dummy aerial. Feed in 430kc/s modulated signal and adjust L10 for minimum output. Check that cursor is in line with end of scale when gang fully open.

Tune set to 500m, feed in 600kc/s modulated signal and adjust L19 for maximum output. Adjust aerial coil L12 on ferrite rod for maximum. Reduce input from generator so that set output does not exceed 50mW.

Tune set to 200m, inject 1.5mc/s modulated signal and adjust C32 then C23 for maximum output. Repeat adjustments to L19, L12, C32

ARMSTRONG STEREO 12 MK. 2



and C23 until no further improvement is obtained.

Switch to LW and tune set to 1500m. Change generator to 200kc/s and adjust L17 for maximum. Move aerial coil L11 on ferrite rod for maximum output.

Note. There is no trimming adjustment on LW band.

FM IF. Switch receiver to FM. Remove output meter. Connect 20,000ohms/volt meter across C51A and set to 10V DC range.

Tune receiver to approximately 100mc/s and set all other controls as in setting up instructions.

Connect FM signal generator to control grid V4 (pin 2) and feed in 10.7mc/s signal deviated 25kc/s. Adjust cores of L24 and L23 for maximum reading on meter.

Transfer generator to control grid V3 (pin 2) and adjust cores of L16 and L15 for maximum reading.

Loosely couple generator to V1 by wrapping lead round envelope or using a capacitor clip. Adjust cores of L8 and L7 for maximum reading.

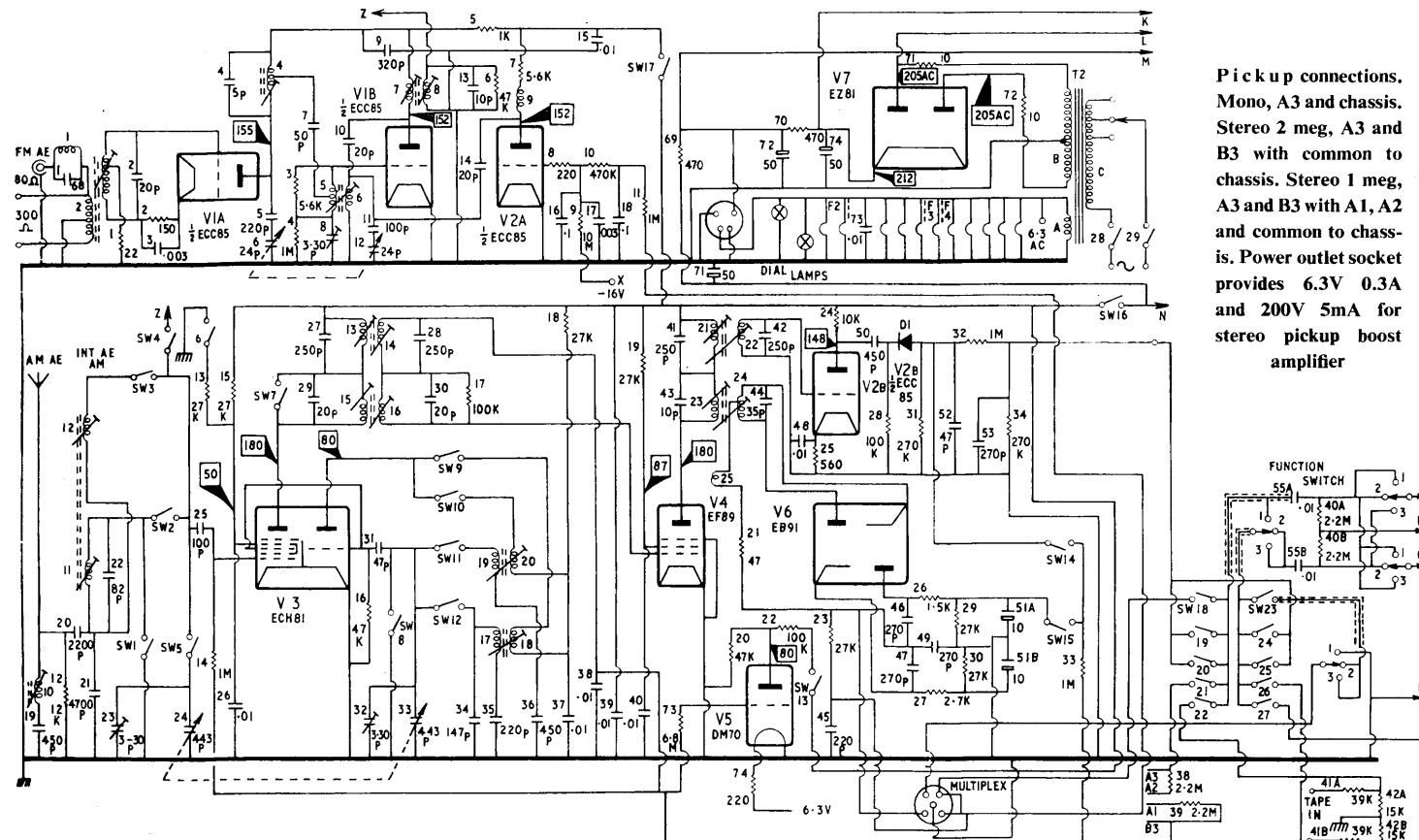
With generator still connected to V1 check adjustments to L24, L23, L16, L15, L8 and L7 until no further increase obtained.

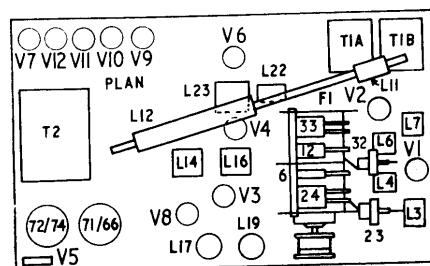
Adjustment of neutralising condenser C8. (Incorrect setting may make RF tracking impossible). A diode probe and valve volt meter or 20,000ohms/volt meter are required.

Disconnect generator and tune receiver to 95mc/s. Connect meter on AC range via diode probe between anode (pin 1) of V1A and chassis. Adjust C8 for minimum reading on meter.

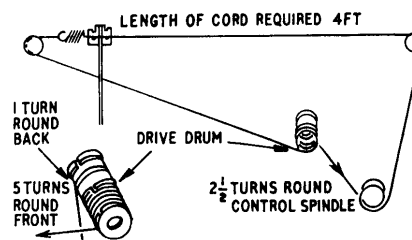
Remove diode probe and reconnect meter across C51A. Connect generator to FM aerial socket and tune receiver to 104mc/s. Inject 104mc/s signal and adjust cores L6 and L4 for maximum reading.

CONTINUED OVERLEAF





Check calibration at 90 mc/s. If greater error than 0.5mc/s adjust spacing on tuning condenser vanes C12 and C6. Check calibration at 104mc/s and re-adjust L6 and L4 if necessary. Repeat last two operations until no further improvement obtained.



Only slight adjustment to C12 should be needed. Bend out if tuning is high and bend in if too low. Apply same method to C6.

Tune receiver to 96mc/s. Feed in 96mc/s signal and adjust L3 for maximum.

